

MIGHNOV, I.A., Gund Med Sci -- (disc) "Secretory

Sunction of the stomach in blue-state-of goiter."

Rostov-on-Bon *** 1948, 16 op (Montov-on-Bon State

Med inst) 200 copies (kL, 28-58, 110)

USSR/Ruman and Animal Physiology. Digestion.

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27002.

Author : I.A. Migunov.

: Uzhgorod University. Inst

: A Modification of the Method of Examining the Se-Title

cretory and Evacuation Function of the Stomach.

Orig Pub: Nauch. zap. Uzhgorodsk. un-t, 1956, 19, 60-63.

Abstract: By means of a fine catheter introduced through

the nose the stomach contents of a fasting patient are sampled; then the patient, with catheter in his stomach, receives breakfast (35 grams of white bread without crust and 400 ml of boiled water at 36 to 38°). Every 15 minutes for two hours after breakfast a sample of the stomach contents is taken

: 1/2 Cari

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

USSR / Human and Animal Physiology (Normal and Pathological).
Digestion.

T

Abs Jour

: Ref Zhur - Biologiya, No 13, 1958, No. 60443

Author

: Migunov, I. A.

Inst

: Uzhgorod University

Title

: Gastric Secretion in Goiter

Orig Pub

: Nauchn. zap. Uzhgorodsk. un-t, 1955, 15, 173-181

Abstract

: In patients with the euthyroid form of goiter (21), the gastric acidity was almost normal, and with thyrotoxicosis of the I degree it was increased in the majority of cases. In thyrotoxicoses of II and III degree, achlorhydria or reduced acidity was found, as well as sharp reduction in gastric juice secretion (in 80% of cases) and in fermentation, and also a prolonged latent period (up to an hour and longer). In the pathogenesis of the disturbances of gastric secretion,

Card 1/2

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FACC NR. AR6019859

(M)

SOURCE CODE: UR/0398/66/000/001/V012/V012

AUTHOR: Migunov, G. M.

TITLE: Experience in the operation of the 6 ChSP 18/22 engine

SOURCE: Ref. zh. Vodnyy transport, Abs. 1873

REF SOURCE: Proizv.-tekhn. sb. Tekhn. upr. M-va rechn. flota RSFSR, no. 3 (47),

1965, 14-16

TOPIC TAGS: diesel engine, internal combustion engine, marine engine, mechanical

engineering, engine reliability, inland waterway transportation, ship

ABSTRACT: Motor tugs have been laid up for repairs to the 6 ChSP 18/22 engine, or to the transmission for 46.7 hours out of every 1000 hours of operation. The engines operated for 2000 hours during a season. Ships fitted with 6 MV D-24 and 26 engines were laid up for repairs for 7.7 hours per 1000 hours of operation. The shortcomings serving to reduce engine hours for the 6 ChSP 18/22 are described, as are measures for eliminating them. 2 figures. S. Korzh. [Translation of abstract]

SUB CODE: 21,13

Card 1/1

UDC: 621.431.74.004

MIGUNOV, Boris Ivanovich; RYVKIND, A.V., red.; BASHMAKOV, G.M., tekhn, red. [Pathological anatomy of diseases of the maxillodental system and mouth cavity] Patologicheskaia anatomiia zabolevanii zubocheliustnoi sistemy i polosti rta. Moskva, Medgiz, 1963. (MIRA 16:5) 134 p. (STOMATOLOGY)

MIGUNOV, B.I., prof.; KOLESOV, A.A., kand.med.nauk Some clinical and morphological data on eosinophilic gramuloma of the jaws. Stomatologiia 38 no.6:47-54 N-D '59. (MIRA 13:4) 1. Iz kafedry khirurgicheskoy stomatologii (zav. - prof. A.I. Yevdokimov) i kafedry patologicheskoy anatomii (zav. - prof. B.I. Migunov) Moskovskogo meditsinskogo stomatologicheskogo instituta (direktor dotsent G.N. Beletskiy). (JAWS--TUMORS)

M 160 NOV MIGUNOV, B.I., prof. So-called epulis gigantocellularis. Stomatologiia 36 no.1:31-36 (MIRA 11:1) Ja-F 157. 1. Iz kafedry patologicheskoy anatomii Moskovskogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G.N.Beletskiy) (GUMS--TUMORS)

MIGUNOV, B.I., professor. Tat'iana Pavlovna Vinogradova. Arkh.pat. 17 no.1:92-93 Ja-Mr (MLRA 8:10) 155. (BIOGRAPHIES, Vinogradova, Tat'iana P.)

MIGUNOV, Prof. B.I.; KOLESNEVA, Z.G.: CHUPRYNINA, N.M. Eosinophilic granuloma of the jaws. Stomatologiia no.3:29-33 (MLRA 8:9) My-Je 155. 1. Iz kafedry patologicheskoy anatomii (zav.prof B.I.Migunov) i kafedra terapevticheskoy i khirurgicheskoy stomatologii Moskovskogo meditsinskogo stomatologicheskogo instituta (dir.dotsent, G.N. Beletskiy) (MOSINOPHILIC GRANULOMA, jaws) (JAWS, neoplasms, eosinopholic granuloma) Recording to the second of the

MIGUNOV, B.I., prof.; ZHUKOVA, B.I., kandidat meditsinskikh nauk Pathomorphologic processes and pathogenesis of paradontosis. Stomatologiia, no.3:3-12 My-Je 154. (MLRA 7:6) 1. Iz kafedry patologicheskoy anatomii Moskovskogo meditsinskogo stomatologicheskog instituta (dir. dotsent G.N.Beletskiy) (PERIODONTIUM, diseases, *pathogen. & patho-morphol. aspects)

DVIZHKOV, P.P.; MIGUNOV, B.I.

Clinico-anatomical conferences; discussion on S. M. Pavlenko's article "Certain methods and forms of reorganization of medical science and practice". Sovet. med. 16 no. 6:31-34 June 1952.

(CLML 22:4)

1. Professors. 2. Moscow.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

BLYUMENTSEV, A.M.; RHARITONOV, S.Ye.; KHOLIN, V.N.; MIGUNOV, B.B.

Quantitative evaluation of iron rocks and ore in the Krivoy Rog Basin based on the radiometric data of holes. Geofiz, abor. no.9:97-100 *64. (MIRA 18:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geologii i geofiziki i Dnepropetrovskaya geofizicheskaya ekspeditsiya tresta "Ukrgeofizravvedka".

CIA-RDP86-00513R001033800001-6 . 6 MIGUNOV, B.B. Possibilities of using neutron methods in the investigation of holes in ore deposits. Prikl.geofiz. no.30:192-197 '61. (MIRA 14:10) (Radioactive prospecting)

MIGUNOV, A.M.; POVALISHNIKOVA, A.S.; GRADUSOV, B.F. Ultrascund absorption in methyl acetate and its mixtures with methyl alcohol. Prim. ul'traakust. k issl, veshch. no.13:213-218 61, (MIRA 1686) (Absorption of sound) (Methanol-Acoustic properties) (Acetic acid-Acoustic properties)

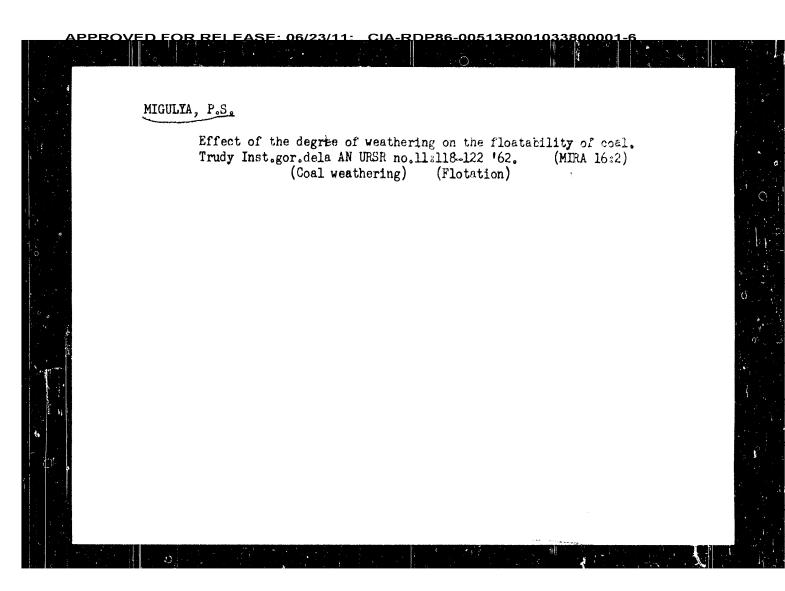
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

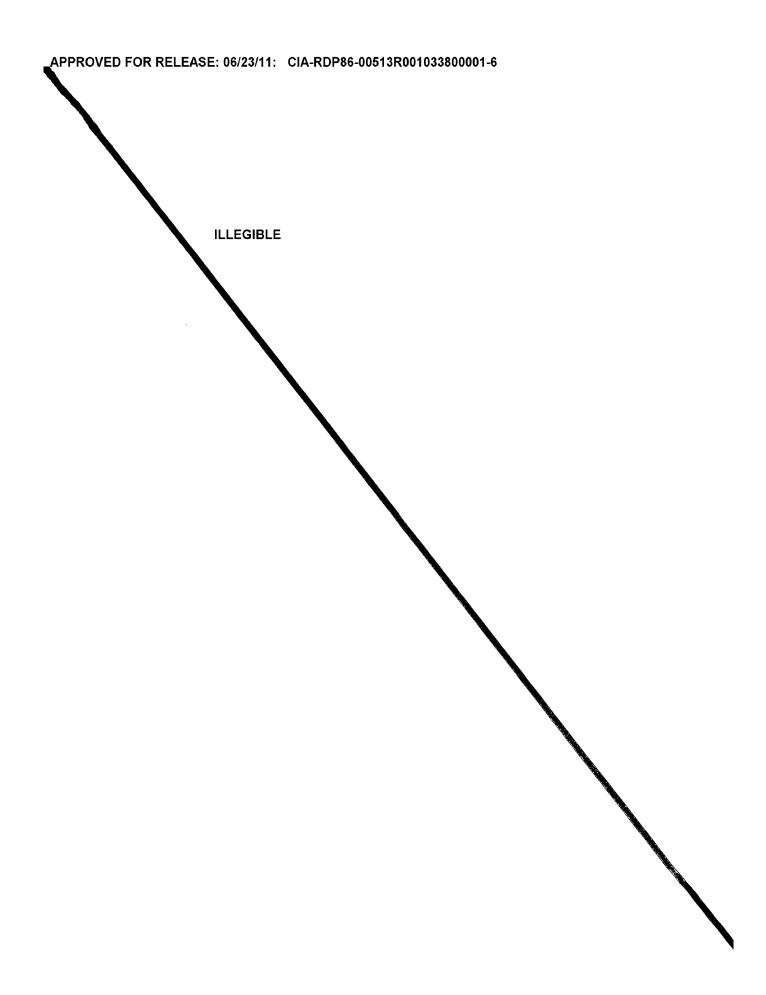
MIGUNOV, A. F.,

Agriculture & Plant & Animal Industry.

Experience in silviculture for shelterbelts on a collective farm beyond the Volga. Saratovskoe obl. gos. izd-vo, 1950.

Monthly List of Russian Accessions, Library of Congress, April 1952 UNCLASSIFIED.





MIGHTIME, T. F.

"Durability of Concrete Receptacles Under the Conditions of a Sewer System." Sub 25 Jun 51, Moscow Order of the Isbor Sel Fanner Construction Engineering Inst iment V. V. Kuylyshey

Dispertations presented for science and engineering degrees in Moscow during 1951.

SX: Sun. No. 420, 9 Say 55

Mastering of a new practice on the sinter plant of the Cherepovetskiy Works. (Cont.) be unreliable due to difficult operating conditions (rapid corrosion of vital parts). The operation of the conveyor belt transporting sinter to furnace bunkers initially presented some difficulties - sticking of sinter in funnels (chutes) and burning of the belt due to inefficient cooling - which were overcome. Basicity of the sinter produced was initially about 0.5, then was raised to about 1, 1.2 and finally to 1.3 (chemical composition and drum test - Table 2 and size distribution of sinter in furnace bunkers - Table 3). distribution of self-fluxing sinter was much finer. Changes in the size distribution of sinter during transport from the sinter plant to furnace bunkers was investigated. The following results were obtained: CaO/SiO₂ Sizes mm: >50 25-50 12-25 8-12 5-8 0-5 after vibr.screens 73.0 7.1 6.9 4.1 2.8 6.1 0.4 furnace bunkers 24.5 6.6 6.4 6.5 31.6 24.4 efter vibr.screens 18.0 6.1 19.5 39.4 12.0 5.1 1.2 furnace bunkers 45.0 14.8 8.2 14.3 2.9 14.8 The operation of the blast furnace with sinter of

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

Mighzitskiy, LR.

AUTHORS:

Yakubtsiner, N. M., Cand. Tech. Sc., and Migulitskiy, 356. Eng. (Leningrad Polytechnical Institute and Cherepovetskiy Metallurgical Works).

TITLE:

Mastering of a new practice on the sinter plant of the Cherepovetskiy Works. (Osvoyeniye tekhnologii i novoy tekhniki na aglofabrike Cherepovetskogo zavoda).
"Stal" (Steel), 1957, No.4, pp. 293-300 (U.S.S.R.)

PERIODICAL:
ABSTRACT:

A description of the plant (Figs. 1 and 2) and characteristic data on raw materials (Table 1) are given. The ore used - concentrates, particle size distribution of which is similar to that of flue dust. Main features of the sinter plant: 1) surface area of the strand - 75 m²; 2) circular cooler with natural draught; 3) shuttle strand feeder evenly distributing the feed across the width of the strand; 4) double screening: stationary screens (25 mm) for hot sinter and vibrating screens (12 mm) for cooled sinter; 5) preheating of the mix with hot return fines and 6) the transfer of cooled sinter to furnace bunkers on a rubber conveyor belt. Sinter cooler with natural draught was found to be ineffective and the introduction of forced draught is considered. The effect of preheating the mix with return fines was not evaluated as it was impossible to have prolonged operation with cooled return fines. Weighing machines for the weighing of the mix before and after the addition of return fines (control of the proportion of return fines) were found to

MIGULINA, V.M., kand.med.nauk

Preservation of sheep blood for Wasservann reaction with glucose-boric-saline solution. Vest.derm.i ven. 35 no.31 40-47 Mr '61. (MIRA 1414)

1. Iz kafedry kozhnykh i venericheskikh bolezney (nahc. - chlenkorrespondent MN SSR prof. S.T. Pavlov) Voyenno-meditsinskoy ordena Lenina akademi imoni S.M. Kirova. (SYPHILIS-WASSEMANN REACTION)

APPROVED FOR RELEASE; 06/23/11: CIA-RDP86-00513R001033800001-6

MIGULINA, V. M.

Chemical Abstracts Vol. 48 No. 5 Mar. 10, 1954 Biological Chemistry The technique of microreaction of flocculation according to Maksimov with active scrum. V. M. Migulina: Ved. nik Venerol. Dermatol. 1953, No. 5, 35-8.—In the Maksimov technique (no ref. given) for microflocculation with active scrum the complete repression of complement activity of human scrum is obtained with ZnSO4 conen. which also causes cloudiness of the medium; ZnSO4 conen. from 0.1 to 0.065% increases the sensitivity of the Maksimov reaction without cloudiness. In this form the reaction gives better agreement with the Wassermann reaction.

G. M. K.

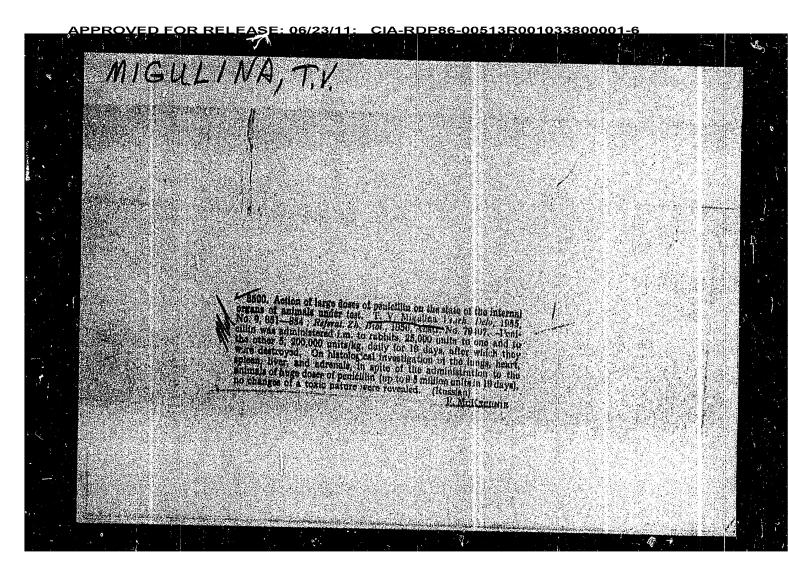
Williamy med. Acad. in S. M. Kiron

CIA-RDP86-00513R001033800001-6 GUETAN, M.J.; HURELLI, M.V. (H.J. W.) Normality of the vaccination process in primes (2000) of with diphtheria-partussis, perturbis vaccine and impation, amatexin. Arbit. pat. no.12:38-28 (6) (100) (100) (201) l. Is patemorfologicaeskey laboratorii (sav. - wi. v s. B.S. dusman) Kentrelinogo jantituta malitriata kh libi rist kikh preparatov imeni farosevicha (director L.S. trichtica).

MAYEVSKAYA, T.M.; MIGULINA, T.V. (Moskva)

Experience with the cultivation of human malignant tumors in chick embryos. Arkh.pat. 22 no.7:39-45 '60. (MIRA 14:1)

1. Iz Instituta virusologii imeni D.I. Ivanovskogo AMN SSSR (direktor prof. P.N.Kosykov) i Gosudarstvennogo kontrol nogo instituta imeni L.A.Tarasevicha (direktor L.S. Ogloblina). (GANGER) (TISSUE CULTURE)



MAYEVSKAYA, T.M.; NIKULINA, L.M.; MIGULINA, T.V.

Culture of human papilloma of the larynx in a chick embryo. Vop. virus. 1 no.3:42-47 My.Je.56. (MLRA 10:1)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, klinika bolezney ukha, gorla i nosa pediatricheskogo fakul'teta II Moskovsk:go meditsinskogo instituta imeni I.V.Stalina i Gosudarstvennyy kontrolonyy institut imeni L.A.Tarasevicha, Moskva.

(PAPILLOMA,

larynx, cultivation in chick embryo (Rus))

(IARYNX, neoplasma,

papilloma, cultivation in chick embryo (Rus))

(TUSSUE CULTURE,

cultivation of papilloma of larynx in chick embryo (Rus))

FILL, V.S., propolicowsk meditorskey alushby, kerd. med. rank; MICLARA, H.A. Holed of polycerdiography using an ink-writing apparatus. Voor.-mod. shur. ro. 1885 Ja '66 (MJRA 1912) MIGULIN. Ye. V. [deceased]. Yaroslavl Technological Institute. Kauch. i rez. 16 no.12:22-23 D 157. (MIRA 11:3) 1. Yaroslavskiy tekhnologicheskiy institut. (Yaroslavl -- Technical education)

CIA-RDP86-00513R001033800001-6 ACC NR: AP7001338 weak fields. The experimental and calculated curves agree well, the quantitative differences being due to the approximate nature of the theory, which is valid strictly only in free space. It is concluded that the large Faraday angles and the relatively small damping in strong magnetic fields make this phenomenon useful with nonreciprocal microwave devices such as ferrites. The authors thank V. S. Ivleva and D. A. Dolgikh for supplying the InSb samples. Orig. art. has: 2 figures and 3 formulas. OTH REF: 003 ORIG REF: OOL SUBM DATE: 19Sep66/ SUB CODE: 20/ Card

APPROVED FOR REL FASE: 06/23/11: CIA-RDP86-00513R001033800001-6

ACC NR. AP7001338

SOURCE CODE: UR/0386/65/004/011/0445/0449

AUTHOR: Afinogenov, V. M.; Migulin, V. V.; Trifonov, V. I.

ORG: Institute of Radio Engineering and Electronics, AN SSSR (Institut radiotekhniki i elektroniki AN SSSR)

TITLE: Singularities of the Faraday effect in n-InSb in the millimeter band

SOURCE: Zhurnal eksperimental nov i teoreticheskov fiziki. Pis ma v redaktsiyu. Prilozheniye, v. 4, no. 11, 1966, 445-449

TOPIC TAGS: indium compound, antimonide, Faraday effect, microwave technology

ABSTRACT: The authors investigated the Faraday effect in n-type InSb at 77.8K as a function of the magnetic field and of the sample thickness. The experimental setup included a klystron oscillator operating at 4 mm, attenuators, a measuring pickup, and an indicator showing the power passing through the sample. The position of the polarization plane was indicated by the minimum of the indicator reading. The measurements revealed the expected oscillations of the angle of rotation of the polarization plane vs. the magnetic field, as well as deviations brought about by reflections from the boundary planes. At sample thicknesses that were multiples of the electromagnetic wave, geometric resonance took place in the sample and the Faraday angle was maximal in this case. The peaks of the oscillations became sharper with increasing magnetic field, owing to the decreased losses in the semiconductor. Plots of the Faraday angle vs. the magnetic field show that the rotation angle becomes negative in

Card 1/2

L 38900-66 EUT(1) SOURCE CODE: UR/0109/66/011/005/0966/0967 ACC NR: AP6029724 AUTHOR: Zernov, D. V.; Timofeyev, P. V.; Fursov, V. S.; Migulin, V. V.; Spivak, G. Spasskiy, B. I.; Nilender, R. A.; Grozdover, S. D.; Shemayev, A. M.; Solntsey, G. S.; Kuzovnikov, A. A.; Zaytsev, A. A.; Vasil'yeva, M. Ya.; Mitsuk, V. Ye.; Dubinina, Ye. M.; Zheludeva. G. A. ORG: none TITLE: Nikolay Aleksandrovich Kaptsov SOURCE: Radiotekhnika i elektronika, v. 11, no. 5, 1966, 966-967 TOPIC TAGS: electric engineering personnel, magnetron, klystron, corona discharge, gas conduction, gas discharge plasma ABSTRACT: N. A. Kaptsov passed away 10 February 1966. He was a student of the famous P. N. Lebedev, and performed many fundamental investigations in the development of modern electronics. He was the creator and leader of the chair of electronics of Moscow State University. He developed the concept of phase grouping of electrons. His ideas are the basis for the development of the magnetron and klystron 25 He developed the concept explaining the phenomenon of corona discharge. He also developed ideas connected with formation of gas conduction and phenomena in a gaseous-discharge plasma. Maptsov served for years as the head of the physical laboratory and consultant to the Moscow Electron Tube Plant. He was the author of numerous books, including "Physical Phenomena in Vacuum and in Gases, which was translated into foreign languages; he also created and taught numerous electronics courses. [JPRS: 36,501] SUB CODE: 05. 09 / SUBM DATE: none

Card 1/1/1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

VVEDENSKIY, B.A., glav. red.; VUI., B.M., glav. red.; SHTEYNMAN, R.Ya., zam. glav. red.; BALDIN, A.M., red.; VONGOVOKIY, S.V., red.; GALANIN, M.D., red.; ZEMIOV, D.T., red.; ISHLINSKIY, A.Yu., red.; MAIITSA, F.L., red.; KAPTOCV, N.A., red.; KOZODAYEV, M.S., red.; LEVICH, V.G., red.; LOYTSYANSKIY, L.G., red.; LUK'YANOV, S.Yu., red.; MALYSHEV, V.I., red.; MIGULIN, V.V., red.; REBINDER, P.A., red.; SYRKIN, Ya.K., red.; TARG, S.M., red.; TYABLIKOV, S.V., red.; FEYNBERG, Ye.L., red.; KHAYKIN, S.E., red.; SHUBNIKOV, A.V., red.

[Encyclopedic physics dictionary] Fizicheskii entsiklopedicheskii slovar'. Moskva, Sovetskaia Entsiklopediia. Vol.4. 1965. 592 p. (NIRA 18:1)

-RDP86-00513R001033800001-6 VASIL*YEV, V.N.; SLOBODENYUK, G.I.; TRIFOROV, V.I.; KHOTUNTSEV, Yu.L.; MIGULIN, V.V., red.; MASHAROVA, V.G., red. [Regenerative transistorized parametric amplifiers; problems of theory and design] Regenerativnye poluprovod. nikovye parametricheskie usiliteli; nekotorye voprosy teorii i rascheta. Moskva, Sovetskoe radio, 1965. 447 p. (MIRA 18:8)

GLADUN, A.D.; PEREPELYATNIK, P.A.; MIGULIN, V.V. Concerning V.N.IAkovlev's article, "Use of a slowly varying parameters technique in studying nonlinear self-oscillatory systems with delay." Radiotekh.i elektron. 8 no.2:355-357 F 163. (MIRA 16:2) (Automatic control) (Differential equations)

APPROVED FOR REL FASE: 06/23/11: CIA-RDP86-00513R001033800001-6

The calculation of the ...

S/188/63/000/001/005/014 B104/B102

averaged over an oscillation period. A calculation of the parametric excitation of an electric oscillation with a frequency equal to the variation frequency of a capacitance allows of determining the excitation conditions and the width of the excitation region. If there is no damping the width of this region agrees with that calculated from the second instability region of the Mathieu equation.

ASSOCIATION: Kafedra teorii kolebaniy (Department of the Theory of Oscillations)

SUBMITTED: April 14, 1962

Card 2/2

45163 S/188/63/000/001/005/014 B104/B102

AUTHOR:

Migulin, V. V.

TITLE:

The calculation of the parametric excitation of oscillations at the frequency of parameter changes

PERIODICAL: Moscow. Universitet. Vestnik. Seriya III. Fizika,

astronomiya, no. 1, 1963, 32 - 37

TEXT: It is shown possible to apply the method of a slowly varying amplitude for calculating the parametric excitation of oscillations having the same frequency as that of the change of a parameter. It is proved that the energy can be introduced into the oscillating system at the expense of the work done by the forces causing the change in the parameter due solely to the unsymmetry of the excited oscillations. This dissymmetry can be calculated by the method of the slowly varying amplitudes by adding a nonoscillating term to the solution sought; the added term being small and having the same order as the modulation-depth coefficient of the parameter. The relation between the magnitude of the added term and the amplitude of oscillations can be determined from the obvious condition that the voltage of the capacitor whose capacitance is changed periodically is zero when

<u> APPROVED FOR RELFASE: 06/23/11: _CIA-RDP86-00513R001033800001-6</u> IL'INOVA, T.M.; MIGULIN, V.V. Parametric excitation of oscillations in a nonlinear circuit. Vest. Mosk. un. Ser.3: Fiz., astron. 17 no.1:55-62 Ja-F '62. (MIRA 15:2) 1. Kafedra teorii kolebaniy fizicheskogo fakul teta Moskovskogo gosudarstvennogo universiteta. (Junction transistors)

Combination ...

S/109/62/007/011/008/012 D266/D308

The conclusions obtained by these approximate calculations were experimentally confirmed.

ASSOCIATION:

Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova (Physics Faculty of Moscow State University im. M.V. Lomonosov)

SUBMITTED:

June 30, 1962

Card 3/3

PPROVED FOR RELEASE: 06/23/11: _CIA-RDP86-00513R001033800001-6

Combination ...

S/109/62/007/011/008/012 D266/D308

(where u and τ are assumed slowly varying) the condition of oscillation at the frequency ω is obtained in the form

$$\left(\frac{3}{4} + Q^2 - \frac{1}{2}E\right)^2 < \frac{9}{16} + \gamma^2 + \lambda_1^2 + \lambda_2^2 - \nu^2$$

where

$$Q^2 = \lambda_1^2 + \lambda_2^2$$

The middle of the oscillation region is given by the condition

$$\frac{3}{2}$$
 $\sqrt{Q^2}$

and the corresponding amplitude

(9)

$$A_0 = 2\sqrt{\frac{2}{1}\lambda_1^2 - \frac{16x^2}{9x^2}}$$
 (11)

Card 2/3

42729

S/109/62/007/011/008/012 D266/D308

1539 AUTHOR:

Migulin, V.V.

TITLE:

Combination parametric excitation of

oscillations

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 11,

1962, 1962 - 1963

TEXT: The author refers to an earlier paper (V.V. Migulin and Ya.L. Al'pert, ZhTF, 1936, v. 6, no. 5, 812) in which a problem of parametric oscillations was treated. A circuit containing a non-linear capacitance was considered which is fed at

two different frequencies ω_1 and ω_2 . If $\omega_1 + \omega_2$ is nearly equal to $2\omega_0$ assuming that $\nu = \frac{\Re}{2\omega L}$, $\xi = 1 - \frac{\omega_0^2}{\omega^2}$ and Υ (a coefficient

expressing the degree of non-linearity) are small and introducing a new variable y, a simplified differential equation is obtained for the variation charge. Solving this equation by the substitution

Card 1/3

MIGULIN, V.V.; LOPUKHIN, V.M.; GUSEV, V.D. Fourth All-Union Conference of the Ministry of Higher and Secondary Specialized Education of the U.S.S.R. on Radio Electronics. Vest. Mosk. un. Ser. 3: 82-84 Ja-F '61. (MIRA 14:4) (Radio-Congresses)

1....5 8/109/60/005/06/010/021 On Forced Oscillations of a Parametrically Regenerated System ASSOCIATION: Moskovskiy gosudarstvennyy universitet imena M.V. Lomonosova, Fizicheskiy fakulitet (Physics Faculty of the Moscow State University imeni M.V. Lomonosov) SUBMITTED: September 14, 1959 Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

80505

S/109/60/005/06/010/021 B140/E163

On Forced Oscillations of a Parametrically Regenerated System

components at frequencies $p_1 \omega$ and $2\omega - p_2$ increase of input signals suppression of the oscillations at frequency as takes place. In a single-circuit parametric amplifier increase of pumping amplitude above the critical value may lead to an operating regime characterised by low gain with the same spectral composition as for the partially excited system. conclusions were verified experimentally (Refs 5, 6) for the case of a coherent force. Experiments to be described in a separate paper have shown that for incoherent forces the processes in the parametrically regenerated system in fact occur in accordance with the theory presented in the present paper. Aside from the two or three fundamental harmonic components derived theoretically there were also other combination frequencies of higher order but with substantially smaller amplitudes. In the present theory these higher-order combination frequencies were neglected There are 3 figures and 6 Soviet references.

Card 2/3

33.E S/109/60/005/06/010/021 9.2572 E140/E163 AUTHOR: Migulin, V.V. On Forced Oscillations of a Parametrically Regenerated TITLE: System PERIODICAL: Radiotekhnika i elektronika, 1960, Vol 5, Nr 6, pp 955-961 (USSR) ABSTRACT: In previous studies of parametric amplifier and oscillator systems the resonant phenomena were studied almost exclusively with rigorously integral relations between the frequency of parameter variation and the signal frequency. However, in many practical cases there is no coherence between the parameter variation and the signal oscillation. Furthermore the system is in principle non-linear. It is necessary to consider separately the cases where the depth of modulation of the parameter is less than critical (parametric regeneration) and greater than critical (parametric excitation). The subject of the present article is the analysis of these questions. It is shown that in a Card parametrically excited system with small input signal, 1/3

oscillations arise containing three fundamental harmonic

20336

Parametric regeneration S/188/60/000/006/009/011 B101/B204

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet, Kafedra teorii

(Moscow State University, Department of Oscillation Theory)

SUBMITTED:

July 15, 1960

Card 4/4

<u> APPROVED FOR REL FASE: 06/23/11: _ CIA-RDP86-00513R001033800001-6</u>

Parametric regeneration

20336 S/188/60/000/006/009/011 B101/B204

obtains the equation $x + [2\delta - kf(t) x = 2\delta]$ (4). For the case in which m is small, it is possible to put (with sufficient accuracy): $\ddot{x} = 1 + 0.5 (m/\pi \, \text{H})^2$ (8), where $2 \dot{\text{H}} = 2 \delta/\omega = R/\omega L$. For the incoherent case the following conclusions are drawn here: 1) The supply (or loss) of energy is not constant, but periodically changes amount and sign in dependence on the difference between oscillation frequency and the half frequency of the change in capacity. 2) The periodic change of capacity entails periodic changing of the oscillation energy of the system. This leads to periodic oscillations, which consists of several frequencies differing by 2Ω . 3) The dependence of the energy supply and energy loss on the present value of the oscillation energy causes the mean value of the energy to be greater than the mean value at constant capacity. Herefrom a positive regeneration by the effect of the forces changing the capacity results on the average. Mention is made of G. S. Gorelik. M. A. Divil'kovskiy, S. M. Rytov, S. M. Rubchinskiy, and A. N. Vakhrameyev. There are 2 figures and 5 Seviet-bloc references.

Card 3/4

Parametric regeneration

20336 S/188/60/000/006/009/01: B101/E204

m = $(C_{max} - C_{min})/(C_{max} - C_{min})$ is the modulation factor. For the incoherent case x = A cos $[\omega t + \Psi(t)]$ is written down. If p differs little from ω , $\Psi(t)$ is a slowly changing phase. Regeneration is here carried out periodically with the frequency $2\Omega = 2|p-\omega|$. The energy supply for each period equals $\Delta N = N\alpha mf(t)$ (2), where f(t) is a periodic function with the period $T_1 = \pi/\Omega$, whose average value equals zero; α is the efficiency of energy supply, m the modulation factor. The energy relations are studied, the conception of the intensity $P = \Delta N/(\pi/\Omega)$ developed by the circuit is introduced and written down: $dN/dt = P + P_0 - P_R$, where $P = N \left[\alpha m/(\pi/\omega)\right]$, P_0 is the intensity from outside, P_R is the average intensity loss. For the harmonic process $P_R = 0.51^2 R = NR/L = 2N\delta$; $2\delta = R/L$, where $N = 0.5LI^2$ and I is the amplitude of the current circuit. One obtains $N + \left[2\delta - kf(t)\right]N = P_0$; $k = \alpha m\omega/\pi$ (3). The steady energy of the enforced oscillation is $N_1 = P_0/2\delta$. One puts N = N/N and one

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9.2580 (and 2104)

20336 S/188/60/000/006/009/011 B101/B2**0**4

AUTHOR:

Migulin, V. V.

TITLE:

Parametrio regeneration

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya 3, fizika,

astronomiya, no. 6, 1960, 67-77

TEXT: The regeneration in oscillating systems is dealt with. Regeneration is defined as a partial or complete compensation of energy losses (L. I. Mandel'shtam and N. D. Papaleksi, Ref. 1). While this is usually brought about by means of feedback, the present paper deals with compensation of energy losses by acting upon the capacity of the circuit. In this case, regeneration is constant only for a certain assembly of frequencies. The processes in a linear oscillation circuit are investigated, in which the capacity changes jump-like with the frequency 2ω . For the coherent case, when in the circuit stationary enforced oscillations exist, which are near harmonic oscillations (frequency $p = \omega$ or $n(\omega) = \sqrt{2m/2} = 2Nm$ (1a) is written down; or $\Delta N = -2Nm$ (1b). ΔN is the change in energy, q_0 the amplitude of the charge.

Card 1/4

MIGULIN, V.V.; VAXHRAMEYEV, A.N.

Hew method for heteroparametric regeneration of an electric oscillating circuit. Hauch. dokl. vys. skoly; fiz.-mat.nauki no.1:138-142 '58.

1.Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.

(Electric circuite)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

PHASE I BOOK EXPLOITATION

859

Migulin, Vladimir Vasil'yevich

Lektsii po osnovam radiolokatsii (Lectures on the Fundamentals of Reder) [Moscow] Izd-vo Moskovskogo univ-ta, 1958. 120 p. 26,000 copies printed.

Sponsoring Agency: Moscow. Universitet.

Ed.: Nosyreva, I.A.; Tech. Ed.: Gur'yanov, V.P.

PURPOSE: The monograph is a textbook for senior students of radio physics.

COVERAGE: Some specific problems of radar are discussed and a new approach to radar is given. Such aspects as radiation and propagation of electromagnetic energy, generation, conversion, transmission, reception, and amplification of superhigh frequencies are discussed. No personalities are mentioned. There are no references.

Card 1/4

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

109-9-1/15

Investigation of the Operating Characteristics of Transistors in Nonlinear Circuits.

necessary. These circuits are selected in such a manner that when changing over from one circuit to the next circuit, there should be no discontinuity in the operation of the transistor. The nonlinear analysis involves a single equivalent circuit but its parameters are variable. It is also possible to adopt another type of approach, that is, an analysis which is based directly on the physical phenomena occurring in a transistor. However, this approach seems to be rather complicated. There are 16 Slavic references.

ASSOCIATION: Physics Faculty of the Moscow State University im. M.V. Lomonosov (Fizicheskiy Fakul'tet Moskovskogo Gosudarstvennogo Universiteta im. M.V. Lomonosova)

SUBMITTED: February 20, 1957.

AVAILABLE: Library of Congress.

Card 2/2

MIRHUNIN VV

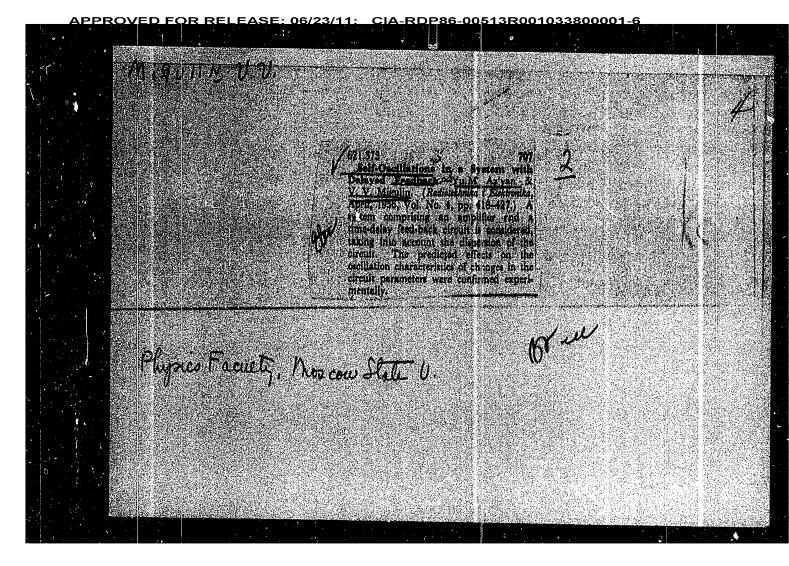
109-9-1/15

AUTHOR: Migulin, V.V.

Investigation of the Operating Characteristics of Transistors TITLE: in Non-Linear Circuits. (Ob Issledovaniyakh osobennostey raboty poluprovodnikovykh triodov v neline ynykh skhemakh)

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.II, Nr 9, pp.1091-1096 (USSR)

ABSTRACT: An investigation programme dealing with various transistor circuits was commenced sometime ago at the Chair of the Theory of Oscillations of the Physics Faculty of the Moscow State University. Some of the results obtained during that investigation have already been published (Refs.1 to 6). Further results are being published in the present issue of the journal. The main problem dealt with in these works is the determination of the equivalent circuits which would adequately describe the properties of transistors in the investigated devices. Some of the equivalent circuits are linear, but in many cases, such as the oscillator circuits or trigger circuits, it is necessary to employ a nonlinear type of approach. Analysis of the transistor circuits can be carried out by means of a stage by stage linear approximation or by means of nonlinear equations. In the first Card 1/2 case a large number of linear equivalent circuits is



<u> /ED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6</u> MIGULIN, V.V.; STRELKOV, S.P.; TEODORCHIK, K.F. The work of Moscow University scholars in the field of physics of vibrations and contemporary problems in the theory of vibration Vest.Mosk. un. 10 no.45:125-132 Ap-My '55. (Vibration) (MLRA 8:8)

Subject: USSR/Electricity

Card 1/1 Pub. 27 - 17/27

Author: Migulin, V. V., Doc. of Phys. Mat. Sci., Prof., Moscow

Title: Karl Friedrich Gauss. The centenary of his death (History of Electrical Engineering)

Periodical: Elektrichestvo, 3, 73-76, Mr 1955

Five references, 1 photograph

Institution: Moscow State University im. Lomonosov

The author gives a short biographical note on Gauss

and then discusses in more detail Gauss' theories and contributions in the field of science and mathematics.

MIGULIN, V.V.

Abstract

Submitted: No date

VAYSENBERG, A. G.; TROITSKOY, V. A.; MIGULIN, V. V. MIGULIN, V. V. "Ekektronika v Yadrenoi Fizike," (Electronics Exptl. Thomniques), Edition of Foreign Lit., MOSCOW 1951.

USSR/Electronics
Oscillators, Transitron
Oscillations - Relexation

"Study of a Relexation Oscillator of the Transitron
Type," V. V. Migulin and T. N. Yastrebtsova, Sci Res
Inst of Phys, Moscow State U, 12 pp

"Zhur Tehr Fiziki" Vol IVIII, No 5

Reports experimental study of transitron characteristics of 62h7 tube, and various performances of RSoscillator working on this tube. Qualitative examination of processes in a similar system gives results
in agreement with experiment. Submitted 24 Nov 1947.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

LIGULIN, V. V.

MIGULIY, V. V.

Kreytser, V. L. defended his Doctor's dissertation in the Institute of Automatics and Telemechanics, Academy of Sciences USSR, on 6 December 1946, for the academic degree of Doctor of Technical Sciences.

Dissertation: "Monlinear Distortions of Signal Wave Forms in Amplifiers".

Official Op onents: Profs. V. V. Migulin and S. Ye. Khaykin (Doctors of Physicomathematical Sciences) and L. G. Tager (Doctor of Technical Sciences)

SO: <u>Elektrichestvo</u>, No. 7, August 1953, pp 37-92 (W/29344, 16 Apr 54)

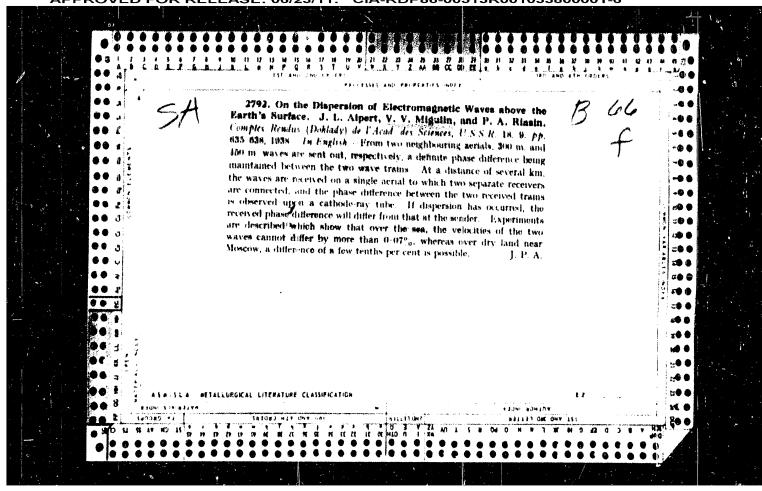
APPRO	VED FO	OR RELEASE	E: 06/23/11: CIA	-RD	P86-00513R0010338	000	01- -	6
MIGULIN,	v.V.		3 6			PA	50T	101
		Б	modulated fluctuations, to measure speed of proalong earth's surface. of books and articles o	USSR/Radio Waves (Author condenses his doctor. Mar 1945 at the Physics In: Sciences, USSR. Also prese Defines term "interference gives methods to determine cusses various types of rac the case of only one source case of several sources of case of fluctuating radiating	"Uspekhi Fiz Nauk"	"Interference of Rac	USSR/Radio Waves Radio Interference
			and e) pagation Gives o n same s	(Contd)	ondenses his doctor's thesis presents at the Physics Institute, Academy, USSR. Also presents several different "interference of radio waves" thous to determine this interference rarious types of radio interference of only one source of radiation, c) is several sources of radiation, c) in fluctuating radiation frequency, d	Vol XXXIII, No 3	Radío Waves, " V. V.	ence
		50T101) interference method on of radio waves comprehensive list subject.	Mar 1947	his doctor's thesis presented in Physics Institute, Academy of Also presents several differences. Serference of radio waves" and determine this interference. Dispes of radio interference: a) in one source of radiation, b) in the sources of radiation, c) in the ing radiation frequency, d) of	ω	V. Migulin, 76 pp	Mar 1947

CIA-RDP86-00513R001033800001-6 APPROVED FOR RELEASE: 06/23/11: path lengths of 2 waves of different frequencies and comprises 2 transmitters (2f and 3f) at one location 621.396.11.018.1 ; 538.566 lavestigation of the phase structure of the electroand 2 receivers at another. The phases of the resegnetic field and the velocity of radio waves. ALPERT, criver-outputs are compared on a c.r. tube via Lissa-J. L., MIGULDI, V. V., AND RYASIN, P. A. J. Phys., jous figures (accuracy 1°-2°). A phase deviormeter U.S.S.R., 4, 1-2, pp. 13-38, 1941.—Starting from or dummy transmitter is used to check receiver phase Sommerfeld's solution for the field of a vertical shift and is described. The radio inserference disdipole at the surface of the earth, the authors comtance meter is a reflection system which measures the pute the variation of the space phase of the Hertzian sum of the ortical path lengths of the 2 transmitted :9 G and vertical electric force vectors as a function of signals. Experiments with the dispersion interferodistance, frequency, ground conductivity and dielecmeter were inconclusive and contradictory, but tric constant of the medium. The phase velocity cun tended to bring out that the dispersion was low and then be graphed against the distance. It is shown often masked by diffraction effects. More successful that, beyond the induction region, this velocity is results were obtained by the reflection technique and lower than c and, as the distance increases, asymptothese agreed with the theory. It is claimed in consetically approaches c. Phase/distance characteristics quence that Zenneck's theory of plane waves and **:00** are calculated for the 2-frequency interferometers Sommerfeld's theory of surface waves are not comused in the experimental work. The dispersion **a 0** patible with experimental data. The work was done interferometer measures the difference in the optical . **e** e on medium waves. : **.0** (0 RETALLUPGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6 Man Condition 11.3 Influence of the Earth's Juriace upon Phase Structure of the E.M. Field of a Radiating Aertal. J. Alpert & V. V. Migulm. J. Alpert & V. V. Migulm. J. Alpert & V. V. Migulm. J. Alpert & J. Alpert

CIA-RDP86-00513R001033800001-6 APPROVED FOR RELEASE: 06/23/11: 2781. Rictromagnetic Field near a Transmitting Aerial. J. L. Alpert, W. W. Migulin and P. A. Rjasin. J. Techn. Phys. U.S.S.R. 9. 9. 324-630, 1939. In Russian .- Lately the question of the phase relations in the propagation of radio waves has gained special actuality in connexion with some new applications, as the interference method of investigating radio waves, the radio interference range-finder, -0 0 and so on. Of unusual importance is the research of the phase structure of the electromagnetic field in the "distant" and "near" some of a -0 0 radiating aerial. On the basis of a previous paper of one of the authors #**0** 0 concerning the calculation of the field of a straight seried in the free space ت**9 و** above ideally conducting ground and including, as a particular case, the · • field of a half-wave serial in the near sone, the present paper gives, as = 0 0 raisation of the mentioned results, an analysis of the phase structure of the field in the near some for the case of a "prolongated" aerial, and the ults of an experimental test of these formule for different prolongation in the range of wavelengths 190 to 660 m. A satisfactory agrees ults and theory was obtained, as far as the calculation of the ph of the vertical component of the field above ideally conducting ground were concerned. From Sommerfeld's theory it follows that in the near some both cases (that of ideally conductive ground compared to that of finite conductivity) differ between themselves by less than 1%. P. B. K. # O

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6



CIA-RDP86-00513R001033800001-6 1952. Resonance Effects in a Non-linear System with Two Degrees of Freedom. V. Migulin, Tachn. Phys., U.S.S.R. 4, 10. pp. 850-866, 1937. In English X study is made of the basic peculiarities of the effects of combination resonance in unexcited oscillatory valve systems of the Thomson type, which may be considered as two partial coupled systems. An external e.m.f., having a frequency close to that of one of the combination tones of the two natural frequencies of the system, is applied, and the resulting oscillations are examined. From an approximate qualitative representation of the effects it is possible to classify the phenomena into a definite system and to determine the frequency ratios at which the phenomena occur. Experimental results confirmed the qualitative theory and gave data on the problem of the practical applicability of similar effects. A particular case is analysed by the method of "abbreviated" equations, and the results of this analysis are in good qualitative agreement with the experimental results for this BETALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6 600. Autoparametric Excitation of Oscillations. W. Migulin. Techn. Phys., U.S.S.R. 3, 10, pp. 841-859, 1936. In German, The work here described constitutes a test and further development of the parametric treatment of the sescalled partial resonance and resonance of the 8th kind. In their work on the latter (see Abstract 480 (1935)) Mandelstamin and l'apalexi put forward the possibility of producing known effects by autoparametric excitation. It this supposition is correct, such resonance phenomena should only be physically realisable when the frequency ratio is given by the equation $\omega/\omega_0 = 2/n$. Experimental evidence is given of the existence of such autoparametric phenomena for frequency ratios of 2/1, 3/2, 2/3, 2/4, 2/5 and 2/6. The autoparametric method makes it possible to formulate the conditions required for the choice of the analytical expression for non-linearity, so that for any particular case the known calculation method can be applied. This is done for the resonance with frequency ratio 2/3 and the agreement with experimental results is natialactory. AL LITERATURE CLASSIFICATION

MIGULIN, V.M., kand.med.nauk Result of the use of the fluorescent antibody method in the diagnosis of gonorrhea. Vest.derm.i ven. 35 no.1:54-58 Ja '61. (MIRA 14:3) 1. Iz kafedry kozhnykh i venericheskikh bolezney (nach. - chlenkorrespondent AMN SSSR prof. S.T. Pavlov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova. (GONORRHEA) (ANTIGENS AND ANTIBODIES)

VOLKOV, Viktor Mikhaylovich, kand. tekhn. nauk; MIGULIN, I.N., kand. tekhn. nauk, retsenzent [Logarithmic amplifiers using transistors] Logarifmicheskie usiliteli na tranzistorakh. Kiev, Tekhnika, 1965. (MIRA 18:7) 265 p.

MIGULIN, Igor' Nikolayevich [Eyhulin, I.M.], kand. tekhn. nauk; VOLEGNER, M.F., doktor tekhn. nauk, prof., rotsensent [Transient processes in translator ampliffers] recentlant protsesi v tranzystornykh pids liuvachakh. Kyiv, tekh ika, 1964. 207 p. (Mina 18:2) MIGULIN, I.N.; CHAPOVSKIY, M.Z. Effect of electrolytic capacitors on the temperature stability of transistor amplifiers. Elektrosviaz 18 no.6:63-66 Je *64. (MIRA 18:1) I. 19356-65
ACCESSION NR: AP4041004
their transistors' emitters. A two-stage decoupled transistorized amplifier circuit is supplied. Orig. art. has: 6 figures and 5 formulas.
ASSOCIATION: none

SUBMITTED: 21Apr63 ENCL: 00

SUB CODE: EC NO REF SOV: 003 OTHER: 002

Card 2/2

<u> APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6</u>

L 19056-65 ASD(a)-5/AFETR/ESD(t)

ACCESSION NR: AP4041004

B/0106/64/000/006/0063/0066

AUTHOR: Migulin, L. N.: Chapovskiy, M. Z.

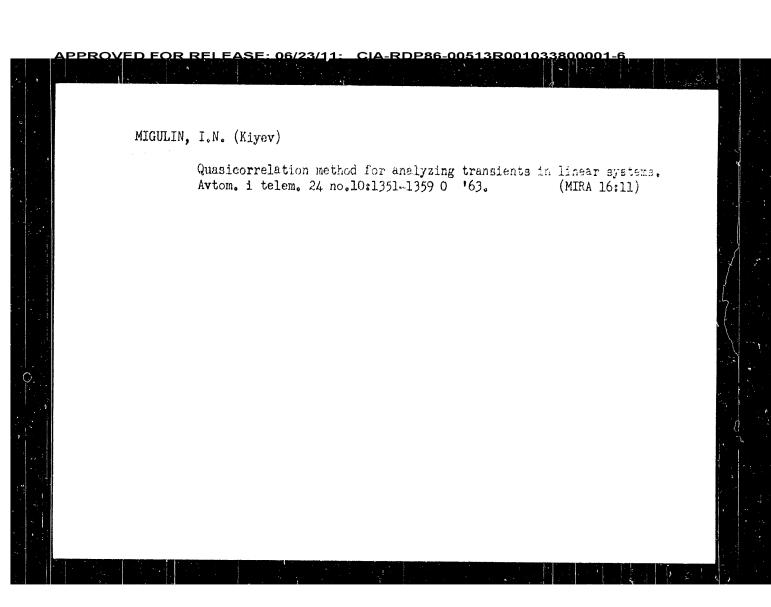
TITLE: Effect of electrolytic capacitors upon the temperature stability of transistorized amplifiers

SOURCE: Elektrosvyaz', no. 6, 1964, 63-66

TOPIC TAGE: amplifier, transistorized amplifier, amplifier temperature stability, capacitor, electrolytic capacitor

ABSTRACT: The instability of the gain in transistorized amplifiers due to temperature variation in the resistance of electrolytic capacitors used in emitter circuits is considered. It was experimentally found, in the well-known stabilized Shea's circuit, that the gain varies by 3 db per stage in the -60 +60C temperature range. The residual feedback and the gain-temperature dependence can be considerably reduced by using decoupling filters between all signal circuits and

Card 1/2



MIGULIN, I.N.; CHAPOVSKIY, M.Z. Dependence of the input admittance of transistors on temperature and collector current. Radiotekh. i elektron. 3 no.12:2066-2070 D 163. (MIRA 16:12)

GERASIMOV, S.M.; MIGULIN, I.N.; YAKOVLEV, V.N.; MASHAROVA, V.G., red.; BELYAYEVA, V.V., tekhn. red. [Fundamentals of the theory and design of transistor circuits] Osnovy teorii i rascheta tranzistornykh skhem. Moskva, Izd-vo "Sovetskoe radio," 1963. 663 p. (MIRA 16:10) (Transistor circuits)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-MIGULIN, I.N.; CHAPOVSKIY, M.Z. Temperature dependence of amplification factor and methods for stabilizing transistor amplifiers. Radiotekh. i elektron. 7 no.8:1409-1416 Ag '62. (MIRA 15:8) (Transistor amplifiers)

Correlation method ...

S/142/62/005/001/005/012 E140/E435

3 figures and 2 tables.

ASSOCIATION: Kafedra radiopriyemnykh ustroystv Kiyevskogo ordena

Lenina politekhnicheskogo instituta

(Department of Radioreceiving Equipment of the Kiyev

Order of Lenin Polytechnical Institute)

SUBMITTED:

May 5, 1961 (initially)
July 10, 1961 (after revision)

Card 2/2

s/142/62/005/001/005/012 E140/E435 Correlation method of estimating the quality of 6,9200 PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Radiotekhnika. Migulin, I.N. AUTHOR: The author proposes to estimate transient quality by TITLE: calculating the cross-correlation integral using the real impulse characteristic hi(t) of the system and a known the delay of the system and a known the delay and establishment time can be easily found. for maximum correlation the response parameters are defined to a the f(t) proposed is cos w (t - to).

The proposed is cos w the recovery representation that representation the representation the recovery representation that representation the rep fairly close approximation.

The response parameters are defined to to the fairly close approximation.

Advantage of transient duration this one is based on the other estimates of transient. other estimates of transient duration, of the results obtained to the time to the first maximum time to the first maximum.

time to the first maximum.

time to the first maximum. by the method proposed here with exact solutions for linear filter by the method proposed here with exact solutions for linear III systems of up to n = 9, n the number of identical sections, systems of up to n = 9, n then about 25% and decreases the start that shows that the error is not more than about 25% and decreases with the number of sections to 4% with 4 sections. card 1/2

<u> APPROVED FOR RELEASE: 06/23/11; _CIA-RDP86-00513R001033800001-6</u>

MIGULIN I M

PHASE I BOOK EXPLOITATION

SOV/5586

Gerasimov, Sergey Mikhaylovich, Igor¹ Nikolayevich Migulin, and Vasiliy Nikolayevich Yakovlev

Raschet poluprovodnikovvkh usiliteley i generatorov (Design of Semiconductor Amplifiers and Generators ' 2d ed., rev. and enl. Kiyev, Gostekhizdat UkrSSR, 1961. 430 p. 25,000 copies printed.

Ed.: Yu. Ye. Korsak; Tech. Ed.: S.M. Matusevich.

PURPOSE: This book is intended for engineering and technical personnel concerned with the application of semiconductor devices. It may also be useful to students of radio engineering divisions in schools of higher education and to advanced radio amateurs.

COVERAGE: The book discusses calculation principles of transistorized amplifiers, generators, and pulse circuits. Chs. I,II, III, and XII were written by I.N. Migulin; Chs. IV, V, and VI by S.M. Gerasimov; Chs. VII VIII, IX, X, and XI by V.N. Yakovlev. References to each chapter are listed separately in the Bibliography. There are 43 references: 37 Soviet and 6 English.

Card 1/9

CIA-RDP86-00513R001033800001-6

807/112-59-24-50834

Translation from: Referativnyy zhurnal Elektrotekhnika, 1959, Nr 24, p 214 (USSR)

AUTHOR:

PIEE:

Semiconductor Amplifter With a High Input Besistance in a Broad

Fraquency Band

PERIODICAL: Tr. Sektsii poluprovodn, pribonov. Ukr. resp. pravl. Nauchan-tekni

o-va radiotekhn, i elektrosvyazi, 1958, Nr 1, pp 5 - 11

ABSTRACT:

A method of obtaining a high input resistance $(R_{4\pi})$ of transistor amplifiers in a broad frequency band is discussed. The method is based on the use of specially selected negative feedback circuits with a subsequent voltage supply to the input. The circuit of such an amplifier with a negative feedback is described and calrulation method is given. It is pointed out that the circuit in question has two advantages: 1) having a high $R_{\rm in}$ it secures a considerable current amplification; 2) on account of a deep negative feedback the internal noise level is markedly reduced in the

Card 1/1

V.M.L.

circuit,

MIGULIN, I.N. Calculating multicascade amplifiers having junction transistors.

Elektrosviaz' 11 no.6:34-41 Je '57. (MLRA 10:6)

(Transistor amplifiers) APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

MIGULIN, I. N.

I. N. Migulin, "Use of feedback to improve the indices of semiconducting amplifiers." Scientific Session Devoted to "Radio Day", May 1958, Trudrezervizdat, Mossow, 9 Sep 58.

Use of a specially selected negative feedback circuit with series feed to the input permits a constant and high input impedance to be obtained in a wide range of frequencies in semiconducting triode amplifiers. A condition for which the input impedance is independent of the frequency is easily obtained successfully on the basis of the derivation of expressions of the equivalent triode parameters connected in a feedback amplifier.

A method has been developed which permits the circuit parameters to be determined uniquely in terms of given magnitudes of the input impedance and frequency band.

A method is analyzed of increasing the input impedance and, therefore, the limiting amplification frequency by neutralizing the internal feedback supply to the input back voltage.

Variations of practical amplifier circuits with neutralization and an experimental investigation thereof are presented.

PROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

Calculation of Semiconductor (Cont.)

SOV/3890

V.M. Yakovlev, and chapters IX, X, and all appendixes were written collectively by all three authors. There are 36 references: 32 Soviet (2 of which are translations), 3 English, and 1 German.

TABLE OF CONTENTS:

Foreword	3
Ch. I. Design Methods Used for Transistor Amplifier with Junction Triodes	_
 Parameter system for junction triode Equivalent	5 5
reploting distraction of the contraction of the con	7
high load impedance	10
 4. Basic parameter relations in pre-amplifying stages 5. Amplifiers with inter-stage matching 6. Feedback amplifiers 	15
7. Choice of operating conditions and plotting dynamic characteristic curves	22
Card 2/0	31

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6 soV/3890 PHASE I BOOK EXPLOITATION Herasymov, Serhey Mykhaylovych, Thor Mykolayevych Myhulin, and MIGULIN, I.M. Rozrakhunok napivprovidnykovykh pidsylyuvachiv i heneratoriv (Calraknunok napivprovidnykovykn plusylyuvachiv i neneratoriv (val culation of Semiconductor Amplifiers and Generators). Kyyiv, Yu.Ye. Korsak; Tech. Ed.: R. Bezp'yatov. PURPOSE: This monograph is intended for engineers and technicians working in the field of semiconductor devices, higher causes of radio engineering departments of schools of higher causes WORKING IN the Ileid of semiconductor devices, for students of radio engineering departments of schools of higher education, and for technically advanced radio amateums. Ed.: and for technically advanced radio amateurs. The book summarizes recent advances in design and use of semiconductors in solid-state electronics, mainly in ampliof semiconductors in solid-state electronics, mainly in ampli-fiers and generators. Methods of calculating semiconductor parameters relative to their application to particular devices are meters relative to their application to particular devices are to type of and requirements according to type of outlined and evaluated, and requirements were written by I.M. operation are given. Chapters I and II were written by operation are given. Herasymov; chapters VI-VIII by Myhulin; chapters III-V by S.M. Herasymov; COVERAGE: card 1/8

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

<u> APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6</u>

MICHITA, I. N.

CIRCUITS

"Contribution to the Design of Aultistage Amplifiers with Junction Transistors," by I.N. Migulin, Mastrocywez, No 6, June 1957, po 34-hl

The generalized theory of transistor and vacuum tube amplifiers, developed by Kulikovskii in the November 1955 issue of Radiotekhnika and by Migulin in the September 1956 issue of Elektrosvyam, is used to present an analysis and a design procedure for junction transistor amplifiers.

Card 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6

MIGULIN, I. H. Cand Tech Sci -- (diss) "Problems of the theory and calculation of boosters on plane semi-conductor triodes." Kiev, 1957. 10 pp (Min of Higher Education UkSSR. Kiev Order of Lenin Polytechnic Inst) (KL, 43-57, 89)

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USSR /Electronics

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 9844

Author

: Migulin, I.N.

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Title

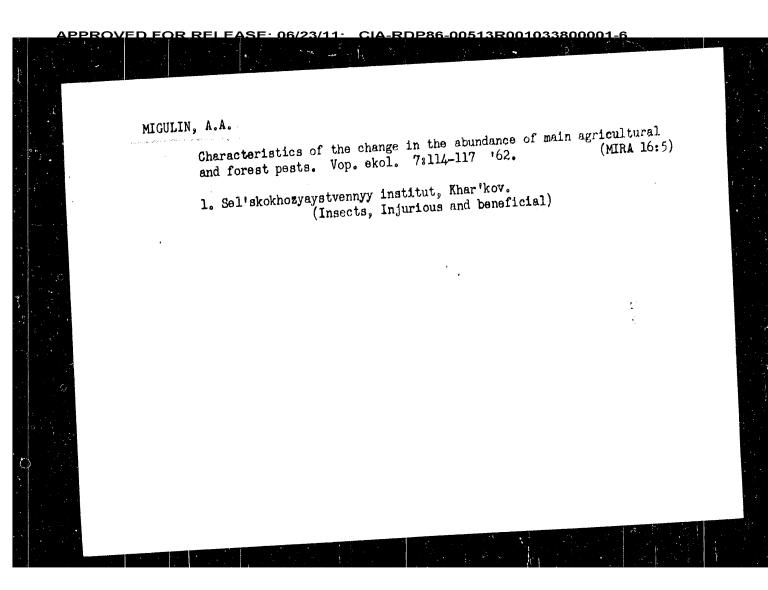
: Equivalent Circuits in Parameters of Junction Transistors

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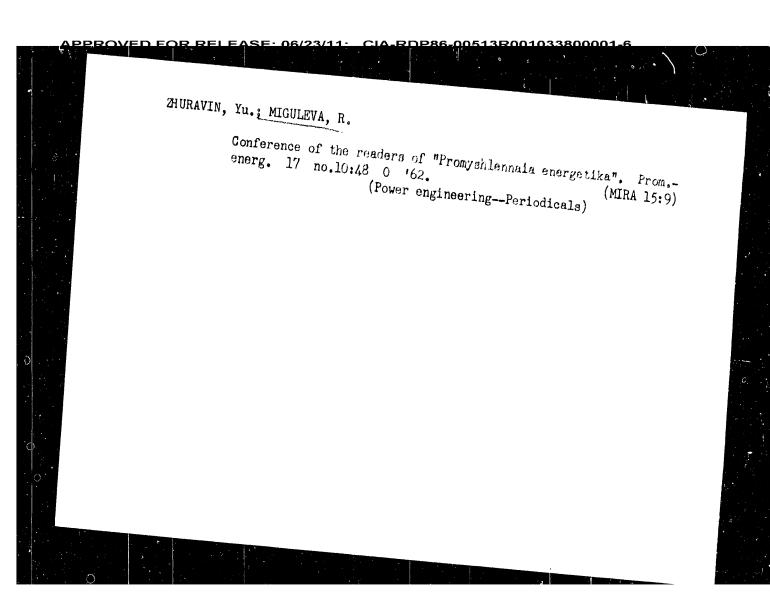
* Elektrosvyaz', 1956, No 9, 46-53 Orig Pub

Abstract : The author considers a system of low-frequency and highfrequency parameters of junction transistors, which makes it possible to generalize the theory of semi-conductor and vacuum tube amplifiers. A simple interpretation of the frequency dependence of the transistor parameters is given. Equivalent circuits are shown, and the fundamental formulas are derived for them. Experimental results are given.

Card : 1/1 CHAPOVSKIY, Mikhail Zakharovich[Chapovs'kyi, M.Z.], inzh.; MIGULIN, I.M.[Myhulin, I.M.], kand. tekhn. nauk, retsenzent [Methods for stabi⁷izing transistor amplifiers] Metody stabilizatsii tranzystornykh pidsyliuvachiv. Kyiv, Tekhnika, 1964. 194 p. (MIRA 17:11)



MIGULIN, A.A. Fractures of population changes of voles inhabiting fields of the Ukrainian S.S.R. Zool.zhur. 34 no.6:1389-1403 N-D '55. (MLRA 9:1) 1.Kafedra zoologii i entomologii Khar'kovskogo sel'skokhozyaystvennogo instituta imeni V.V.Dokuchayeva. (Ukraine--Field mice)



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Preparation and the...

lustreless material. The forbidden band widths were 0.41 ev and 6.53 ev respectively. The discrepancies between electrical and optical test results may be due to complex band structure and degeneration. There are 8 figures and 7 references: 2 Soviet-bloc and 5 non-Soviet-bloc. The two references to English-language publications read as follows: Tannenbaum, M., Briggs, H. B., Phys. Rev. 91, 1561 (1953); Burstein E. Phys. Rev. 92, 632, 1954.

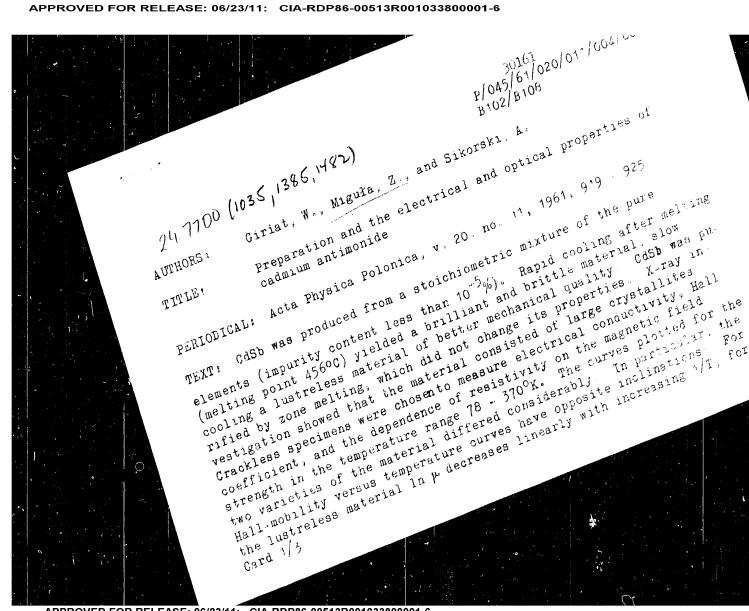
ASSOCIATION: Institute of Physics, Polish Academy of Sciences, Warnaw

SUBMITTED: May 11, 1961

Card 3/3

P/045/61/020/011/004/00/ B102/B108 the brilliant material $\ln \mu$ rises nonlinearly with 1/T. Optical transmission and absorption were measured and compared for the two varieties Preparation and the In the spectral range investigated (0.5 - 15 m), the two modifications showed different behaviors. The position of the absorption edge could be found only for the brilliant cash. From thermo-emf measurements at way found only for the brilliant CdSb. From thermo-emf measurements it was found that both modifications were of the notype. At nitrogen temperotions $n = 4.4 \cdot 10^{16}$ cm⁻³ for the lustreless and $n = 5.5 \cdot 10^{17}$ cm⁻³ for the n = 4.4° iv om lustreless and n = 7.7 iv om ones depends on brilliant variety. The electron concentration in both cases depends on the structural defects and deviations from the stoichiometric composition The fact that the billiant material contains more defects is ascribed to their freezing oin during rapid cooling. For both varieties it was found that the mobility values as determined from Hall effect and conductivity differed considerably from those determined from the resistivity. Versus magnetic field curves: 106 and 420 cm $^2/v$ -sec was found for the lustreless 18 and 280 cm²/v sec for the brilliant modification. This is ascribed to the polycrystalline nature of the specimens. The maximum activation one polycrystalline nature of the specimens. The maximum activities of the energies were found to be 0.082 ev for the brilliant and 0.37 ev for the energies were found to be 0.082 ev for the brilliant and 0.37 ev for the card 2/3

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800001-6 MIGUL, A. THE TABLET OF THE BLICK TO THE LINE TO THE LINE TO THE TERM TO THE TERM TO THE TERM THE TRANSPORT OF THE TERM THE THE TERM THE THE TERM TH "The Investigation of A-Hyperon and K^{o} -Meson Production in \bar{a} C and Interactions at 7-8 GeV" report presented at the Intl. Conference on High Energy Physics, Geneva, 4-11 July 1962 Joint Institute for Nuclear Research Laboratory of High Energies

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MIGUKIN, F.M., inzh.; ROGACHEVSKIY, TS.A., inzh.; IOFIK, B.M., inzh.; LEPYANSKIY, Ya M., inzh. New convoyer for lap transport. Tekst-prom. 21 no.5:51-53 My (MIRA 15:1) ¹61. 1. Gosudarstvennyv proyektnyy institut no.3. (Textile industry--Equipment and supplies) (Conveying machinery)

CIA-RDP86-00513R001033800001-6 BABETSKIY, Mark L'vovich; MIGUKIN, Aleksandr Timofeyevich; KARMASHENSKIY, A.N., red. [Organization of the repair of earthmoving mechinery and repair equipment attachments] Organizatsiia remonta zemleroinyko mashin I remontnye prisposobleniia. Leningras, (KIRA 18:3) 1964. 27 p.